

- (5) **Excelsior Mat.** Place the mat as shown on the Plans so that the fibers are in contact with the soil and the netting is on the top. Place each strip of mat parallel to the direction of the flow of water.
- (6) **Jute Mesh.** When jute mesh is used over sodded or sprigged areas, place it prior to watering operations. Unless the hydro-seeding method is called for on the Plans, place the jute mesh after the seed or sod has been planted, and secure it as shown on the Plans. Maintain the jute mesh-covered areas until all work on the project is completed and accepted. Reshape damaged slopes to their original slope lines, then fertilize, seed, or sod, and cover with jute mesh again as originally specified.

233.05. METHOD OF MEASUREMENT.

The mulching items will be measured as follows:

Vegetative mulching, excelsior mulching, and wood cellulose fiber will be measured by the acre (hectare).

Asphalt mulching will be measured by the gallon (liter) of undiluted emulsified asphalt.

Excelsior mat and jute mesh will be measured by the square yard (square meter) of area covered.

233.06. BASIS OF PAYMENT.

Accepted mulches, measured as provided above will be paid for at the contract unit price as follows:

- | | | |
|-----|----------------------------|----------------------------|
| (A) | VEGETATIVE MULCHING | ACRE (HECTARE) |
| (B) | EXCELSIOR MULCHING | ACRE (HECTARE) |
| (C) | ASPHALT MULCHING | GALLON (LITER) |
| (D) | WOOD CELLULOSE FIBER | ACRE (HECTARE) |
| (E) | EXCELSIOR MAT | SQUARE YARD (SQUARE METER) |
| (F) | JUTE MESH | SQUARE YARD (SQUARE METER) |

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

SECTION 234 FERTILIZING AND AGRICULTURAL LIMING

234.01. DESCRIPTION.

This work shall consist of furnishing and applying fertilizer or agricultural liming materials in accordance with these Specifications and in reasonably close conformity with the areas and locations shown on the Plans or established by the Engineer.

234.02. MATERIALS.

Materials shall meet the requirements specified in the following Subsections of Section 700 Materials.

Fertilizer	735.07
Agricultural Limestone	706.04
Hydrated Lime	706.01

234.03. EQUIPMENT.

- (a) **General.** Furnish equipment in satisfactory working condition and in sufficient quantity to perform the work as specified, and have the equipment on the project site and approved by the Engineer before beginning work on the corresponding item.
- (b) **Fertilizer and Lime Spreaders.**
 - (1) **Vertical Drop and Broadcast Type.** The machine for applying dry fertilizer or lime shall be an approved agricultural type spreader. It shall be capable of distributing the specified material uniformly on the designated area at specified rates of application without damaging the fertilizer granules or lime.
 - (2) **Power Spray.** The equipment for distributing fertilizer or lime in water shall comply with the specifications for Hydraulic Seeding, Subsection 232.03(a).

234.04. CONSTRUCTION METHODS.

- (a) **General.** Unless otherwise indicated on the Plans, apply the lime or fertilizer with the vertical drop or broadcast spreader. Do not apply the lime or fertilizer during weather that would result in waste or poor distribution. When lime and/or fertilizer is specified, apply it prior to or during the ground preparation for permanent seeding or sodding.
- (b) **Methods of Applying Fertilizer or Lime.**
 - (1) **Vertical Drop or Broadcast Method.** Apply the fertilizer or lime uniformly at the specified rate with a spreader conforming to the requirements of Subsection 234.03. The equipment shall not rut or otherwise damage the prepared surface.
 - (2) **Power Spray Method.** Apply the fertilizer or lime in water at the rate shown on the Plans, and distribute the material without appreciable runoff. The maximum quantity of fertilizer placed in the spray tank with 1000 gallons (3785 liters) of water shall not exceed the quantity specified for 2 acres (0.8 hectares) of seeding or sodding. The maximum amount of lime placed in the spray tank with 1000 gallons (3785 liters) of water shall not exceed the quantity specified for 1 acre (0.4 hectare) of seeding or sodding. If less than 1000 gallons (3785 liters) of water is loaded into the spray tank, the quantity of fertilizer or lime loaded and the area treated per load shall be reduced in proportion to the water.
 - (3) **Hand Broadcast Method.** On areas inaccessible to large spreaders or power sprayers, apply the lime or fertilizer with hand-operated equipment.

234.05. METHOD OF MEASUREMENT.

Fertilizing will be measured by the ton (metric ton) of specified material, as determined by approved scales or guaranteed weights of sacks shown by the manufacturer. If a substitute grade of fertilizer is furnished, the amount of material measured for payment will be adjusted to the equivalent number of pounds (kilograms) of fertilizer element per unit of area as would have been applied with specified grade.

NOTE: Fertilizer used in repair of unacceptable work will not be measured for payment.

Agricultural limestone or agricultural hydrated lime will be measured by the ton (metric ton), as determined by approved scales or by guaranteed weights of sacks shown by the manufacturer.

234.06. BASIS OF PAYMENT.

Accepted fertilizing and agricultural liming, measured as provided above, will be paid for at the contract unit price as follows:

- | | | |
|-----|----------------------------------|------------------|
| (A) | FERTILIZING | TON (METRIC TON) |
| (B) | AGRICULTURAL LIMESTONE | TON (METRIC TON) |
| (C) | AGRICULTURAL HYDRATED LIME | TON (METRIC TON) |

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

SECTION 241 MOWING

241.01. DESCRIPTION.

This work shall consist of mowing designated areas to a height not less than 4 inches (100 mm) when and as directed by the Engineer until acceptance of the Contract.

241.03. EQUIPMENT.

Use mechanical equipment for mowing operations.

241.04. CONSTRUCTION METHODS.

Mow only when the ground is sufficiently firm to prevent rutting.

NOTE: Any damage to the surface shall be repaired by the Contractor at no additional cost to the Department.

Remove litter, debris, and excessive amounts of grass clippings of sufficient magnitude to smother or retard grass growth from the areas as necessary to restore the sightliness of the areas.

In areas inaccessible to mechanical mowers, use hand-cutting methods-so the entire designated areas shall be uniform in appearance.

241.05. METHOD OF MEASUREMENT.

Mowing, when directed by the Engineer, will be measured by the acre (hectare) of mowing the designated areas in a manner approved by and accepted by the Engineer.

241.06. BASIS OF PAYMENT.

Mowing, measured as provided above, will be paid for at the contract unit price as follows:

MOWING	ACRE (HECTARE)
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Such payment shall be full compensation for furnishing all materials, equipment, labor and incidentals to complete the work as specified.